

CLAIMS:

1. A base station device comprising:

a controller for changing a reference value for reverse closed loop power control
 5 in a control hold state; and

a forward dedicated control channel transmitter for transmitting a power control
 bit for controlling transmission power of a reverse link according to the changed
reference value.

2. The base station device as claimed in claim 1, further comprising a
 gating controller for determining a gating rate representing a transmission period of a
 power control bit according to the changed reference value for closed loop power control,
 and transmitting a power control bit from the forward dedicated control channel
 transmitter according to the determined gating rate.

3. A communication device for a mobile communication system,
 comprising:

a base station device for changing a reference value for reverse closed loop
 power control in a control hold state, and transmitting a power control bit for controlling
 20 transmission power of a reverse link according to the changed reference value; and

a mobile station device for controlling transmission power of a reverse pilot
 channel according to the power control bit received from the base station device.

4. The communication device as claimed in claim 3, wherein the base station device determines a gating rate representing a transmission period of a power control bit, and transmits the power control bit at the determined gating rate.

5. The communication device as claimed in claim 3, wherein the reverse pilot channel includes forward power control information.

6. The communication device as claimed in claim 3, wherein upon activation of a reverse dedicated control channel, the base station device increases a transmission power of the reverse pilot channel above a reference value for performing reverse closed loop power control.

7. The communication device as claimed in claim 5, wherein the mobile station device increases the transmission power of the reverse dedicated control channel by a predetermined amount which is defined as a system parameter.

8. The communication device as claimed in claim 5, wherein the mobile station device neglects a reverse power control bit received at an activated time of the reverse dedicated control channel.

9. The communication device as claimed in claim 5, wherein the mobile station device ignores a power-down command contained within reverse power control bits at a duration where the reverse dedicated control channel is activated, and applies a

power-up command contained within the received reverse power control bits to control the transmission power of the reverse link.

10. The communication device as claimed in claim 3, wherein upon
 5 activation of a reverse dedicated control channel, the mobile station device increases a transmission power of the reverse pilot channel above the reference value for performing closed loop power control for a duration defined as a system parameter, including a duration where the reverse dedicated control channel is activated

10 ~~11.~~ A base station device comprising:
 a controller for changing a reference value for reverse closed loop power control in a control hold state, determining a transmission period of a power control bit according to the changed reference value for reverse closed loop power control, and
 15 controlling transmission power of a reverse link according to the determined generation period; and

a reverse dedicated control channel transmitter for repeatedly transmitting the generated power control bit until a next generation period.

20 ~~12.~~ A transmission method for a base station, comprising the steps of:
 changing a reference value for reverse closed loop power control in a control hold state; and
 transmitting a power control bit for controlling transmission power of a reverse link according to the changed reference value.

13. The transmission method as claimed in claim 12, further comprising the step of determining a gating rate representing a transmission period of a power control bit according to the changed reference value for closed loop power control, and
5 transmitting a power control bit at the determined gating rate.

14. A communication method for a mobile communication system, comprising the steps of:

changing, at a base station, a reference value for reverse closed loop power control in a control hold state, and controlling transmission power of a reverse link according to the changed reference value for performing closed loop power control; and
controlling, at a mobile station, transmission power of a reverse pilot channel according to a power control bit from the base station.

15. The communication method as claimed in claim 14, wherein the base station determines a gating rate representing a transmission period of a power control bit according to the changed reference value for closed loop power control, and transmits the power control bit at the determined gating rate.

16. The communication method as claimed in claim 14, wherein the reverse pilot channel includes forward power control information.

17. The communication method as claimed in claim 14, wherein upon

activation of a reverse dedicated control channel, the base station increases a transmission power of the reverse pilot channel above a reference value for reverse closed loop power control at a duration where the reverse dedicated control channel is activated.

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18. The communication method as claimed in claim 16, wherein the mobile station increases transmission power of the reverse dedicated control channel by a predetermined value which is given as a system parameter.

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19. The communication method as claimed in claim 16, wherein the mobile station ignores a reverse power control bit received at a duration where the reverse dedicated control channel is activated.

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20. The communication method as claimed in claim 16, wherein the mobile station neglects a power-down command included among reverse power control bits received at a duration where the reverse dedicated control channel is activated, and applies a power-up command included among the received reverse power control bits to control transmission power of the reverse link.

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21. The communication method as claimed in claim 14, wherein upon activation of a reverse dedicated control channel, the mobile station increases transmission power of the reverse pilot channel above the reference value for closed loop power control for a duration defined as a system parameter, including a duration where

the reverse dedicated control channel is activated

22. A transmission method for a base station, comprising the steps of:

changing a reference value for reverse closed loop power control in a control

5 hold state, determining a generation period of a power control bit according to the
changed reference value for reverse closed loop power control, and controlling
transmission power of a reverse link according to the determined generation period; and
repeatedly transmitting the generated power control bit until a next generation
period.

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